

WHAT IS CLAIMED IS:

1. A developing apparatus comprising:

a toner carrying member for carrying toner to  
a developing zone where said developing apparatus  
5 faces to an image bearing member;

bias voltage applying means for applying to  
said toner carrying member a developing bias voltage  
for developing an electrostatic latent image formed on  
the image bearing member, wherein said developing bias  
10 voltage is in the form of a DC voltage biased with an  
AC voltage said;

wherein when a developing operation stops,  
rotation of said toner carrying member is stopped  
while rotating the image bearing member electrically  
15 charged, and then, the AC voltage is applied to said  
toner carrying member for a predetermined period, and  
thereafter, the AC voltage is stopped in a condition  
in which regular-charge toner is being urged from said  
toner carrying member toward the image bearing member.

2. An apparatus according to Claim 1, wherein  
the AC voltage crosses with a charged potential of the  
image bearing member.

25 3. An apparatus according to Claim 2, wherein  
said period is not less than 50msec.

4. An apparatus according to Claim 1-3, wherein the DC voltage is stopped substantially simultaneously with the DC voltage.

5 5. An apparatus according to Claim 1, wherein said developing bias voltage comprises a first peak voltage for forming a substantially constant electric field for urging the regular-charge toner from said toner carrying member toward the image bearing member,  
10 and a second peak voltage for forming a substantially constant electric field for urging the regular-charge toner from the image bearing member toward said toner carrying member, wherein said AC voltage is stopped when said first peak voltage is applied.

15 6. An apparatus according to Claim 1, wherein a charging polarity of the image bearing member is the same as a charging polarity of the regular-charge toner.

20 7. An apparatus according to Claim 1, wherein said toner carrying member is a cylindrical sleeve.